

**APPLICATION FOR BENEFICIAL WATER USE PERMIT
HYDROGEOLOGIC ASSESSMENT REPORT ADDENDUM**

§ 85-2-361, MCA
ARM 36.12.120

This addendum must be completed and the required information attached to a permit application if the point of diversion is located within a basin closure area. This information must be provided by a person qualified under § 85-2-361(2).

Attachments must be labeled as shown in the sections below (i.e: HRA.3.a). If a section is not applicable, label the section as Not Applicable or NA.

Prepared By: _____ Title: _____

I am a Hydrogeologist Qualified Scientist – Specify _____
 Qualified Licensed Professional Engineer

Section 1. Area of Effect

HRA.1.a What is the source aquifer? _____

HRA.1.b Is the area of groundwater that will be affected by the proposed use smaller than the limits of the aquifer? If so, explain.

HRA.1.c What surface waters will potentially be affected? Include surface waters specified under § 85-2-361(1)(a),MCA that are subject to an existing appropriation right.

Section 2. Geology and Parameters of the Aquifer System

HRA.2.a What geologic formation is the proposed well completed in?

HRA.2.b Parameters of the aquifer system.

HRA.2.b.1 What is the lateral extent and thickness of the aquifer? _____

HRA.2.b.2 The aquifer is: confined or unconfined

HRA.2.b.3 What is the effective hydraulic conductivity of the aquifer? _____

HRA.2.b.4 What is the transmissivity of the source aquifer? _____

HRA.2.b.5 What is the storage coefficient of the source aquifer? _____

HRA.2.b.6 What is the flow direction of ground water and rate of movement? _____

Section 3. Beneficial Use and Potentially Affected Water Rights

HRA.3.a Yes No Is the proposed amount to be diverted similar to the amount diverted for other beneficial uses like the proposed use? If not, explain.

HRA.3.b What evidence do you have that water is physically available for the proposed use?

Section 4. Net Depletion Analysis

HRA.4.a The volume of net depletion resulting from the proposed use is:

- Volume diverted
- Volume consumed
- Other

Explain your answer: _____

HRA.4.b The timing of net depletion resulting from the proposed use is:

- Constant year-round
- Equal to the timing of withdrawal
- Other

Explain your answer: _____

HRA.4.c Yes No Will net depletion, if any, result in adverse effect?

HRA.4.d Yes No Does the proposed use include wastewater treatment?

If yes, describe. _____

HRA.4.e How much conveyance loss will occur from the proposed project? _____

Describe how this amount was determined. Include information about the distribution and storage system. _____

HRA.4.f The volume of return flow from the proposed use is:

- The volume diverted minus the volume consumed
- Other

Explain your answer: _____

HRA.4.g The timing of return flows resulting from the proposed use is:

- Constant year-round
- Immediate
- Other

Explain your answer: _____

HRA.4.h The location of return flows:

- The potentially affected surface waters identified in HRA.1.c
- Other

Explain your answer: _____

Section 5. Water Quality Report

HRA.5.a Yes No Are there existing documented hazards that could be affected or exacerbated by the proposed project, such as areas of subsidence? If so, describe a plan to mitigate any of those conditions or impacts. _____

HRA.5.b Yes No Have any water quality permits been issued for this project? If so, attach copies of any to this report.

NOTE: Information required for the hydrogeologic assessment may not be sufficient to meet applicable criteria under [85-2-311](#), MCA, including but not limited to adverse effect to a prior appropriator. The applicant for a beneficial water use permit pursuant to [85-2-311](#), MCA, is responsible for providing sufficient evidence to meet all applicable criteria.